EAGLE EYE

Extreme HD

FULL HD 1080P Sport Camcorder

USER MANUAL

Please read this user manual carefully and thoroughly before any attempt Install and operate this product and retain it for your future reference

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PREFACE

Thank you for choosing the HD119 1080p Full HD Helmet DV to pursue your digital video adventures. Whether you are racing at the track, pedaling through the woods or gliding through fresh powder, to get the utmost satisfaction from your digital video, please take a moment to read this manual carefully so to operate the DV properly. If you encounter any difficulty in reading this guide, please turn to a knowledgeable person for help.

APPROVAL INFORMATION:

All our products meet the requirements of approval FCC or CE, and are granted the FCC or CE certification. They are authorized to bear FCC or CE mark.

FCC:

This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

CE:

This product complies with standards including Low Voltage Device Directive 73/23/EEC; EMC Directive 89/336/EEC and R&TTE Directive1999/5/EC. It passed the subject tests by the authority concerned and is authorized to bear CE mark.

ABOUT THE MANUAL:

We do our best to ensure all content and details contained within this manual are accurate and up to date with the product specifications at the time of printing this manual. However, product functions and specifications may change without notice. In the event that the manual information does not match the actual product functions or specifications, the products functions or specifications will be considered correct and the manual’s considered incorrect.

WARNING

- Do not store the device in any place with following conditions:
  - High temperature (50℃or higher)
  - Exposure to the direct sunlight or a heating device
  - Inside the car with closed windows (especially, in the summer)
  - Humid place such as the bathroom
- When removing dust, use soft, dry cloth. Do not use organic solvents such as thinner or benzene or wet cloth.
- Do not place a debit card or a bus pass near the speakers. Magnetic interference may occur, which will damage the card.
- Do not place the device near a magnet. The device may not work properly.
- Do not repair, disassemble, or remodel the device. Incorrect repairing may cause electric shock and data loss saved in the product and void your warranty.
- Do not use the product in a place where use of electronic devices is prohibited.
- Do not operate or set up this device while driving. If it is required to change set up, please do it after pulling over the car or before driving.
- Do not heat up or short the main body or the battery.
- Do not disassemble the battery.
- Batteries are to be inserted with correct polarity according to the direction shown in the manual.
- When using an auxiliary device, leave a gap between the auxiliary device and the main device.
- Keep the device out of reach of children.
- Waterproof Capability

  -The waterproof capability of this DV is similar as IPX6;

  -Please do not use the DV under water;

Main Features

- 1.5inch TFT LCD(480 x 240 dots)
- 5.0 MP High definition CMOS image sensor
- 1080p H.264 .MOV video recording format
- Water Resist
- Easy operation for recording and taking a picture
- Optional recording resolution:

Full HD	1920 x 1080p	30FPS
	1440 x 1080p	30 FPS
HD	1280 x 720p	30 FPS
WVGA	848 x 480	60 FPS

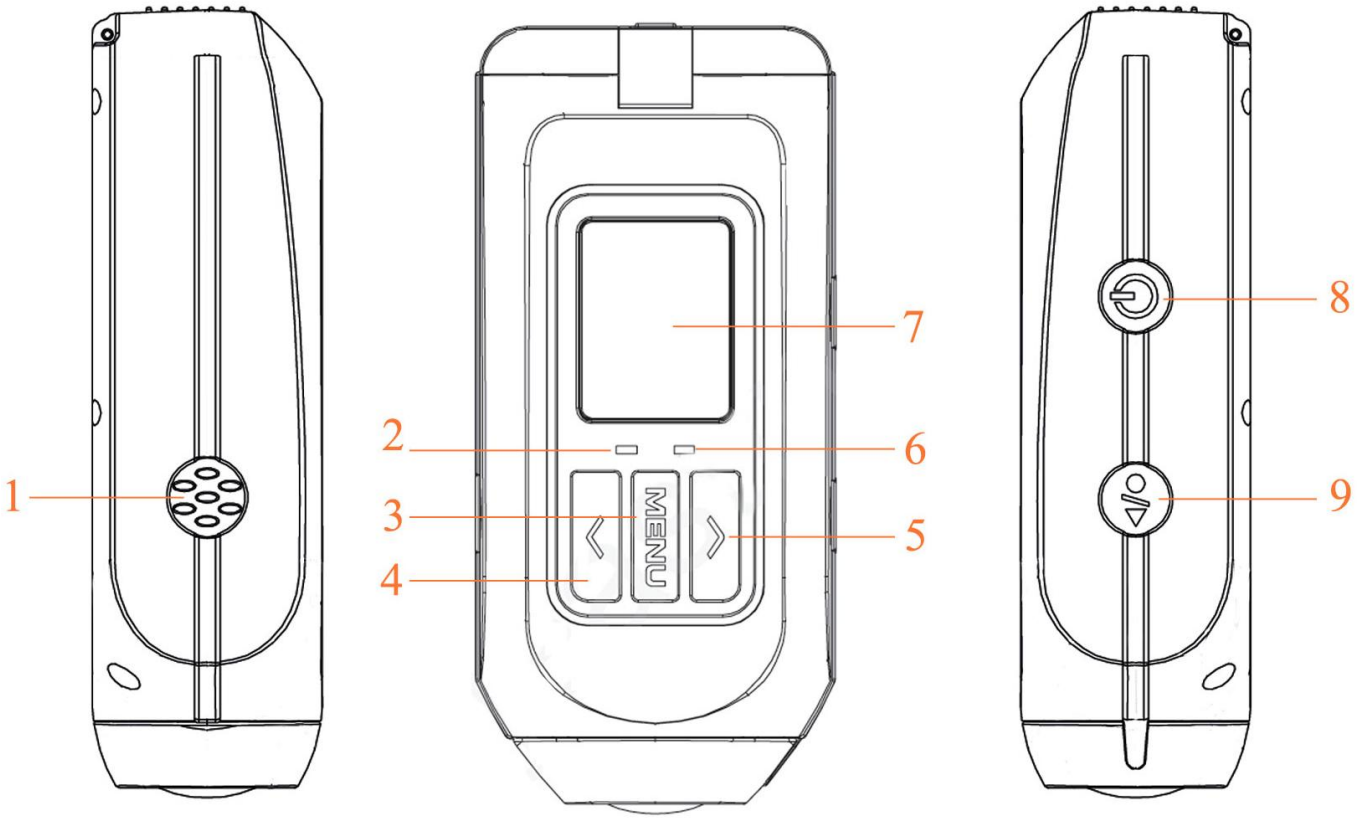
- Optional picture resolution:

4000 x 3000	12M
3200 x 2400	8M
2592 x 1944	5M

- Video and Picture playback available
- Internal SD card reader for memory expand(SDHC 1GB~32GB available)
- High speed USB2.0 interface for power charge and data transfer
- HDMI 1080p output
- 3.7V 1300mA removable and rechargeable Li-ion battery
- Secure mounts for different use
- Wireless Remote Controller

Installation ands use

1. Main Unit & Buttons



1. MIC
2. Power on Red/Power charging Green indicator
3. MENU button
4. Down/ Fast Forward
5. Up/ Rewind/Pairing Button for RMC
6. Recording indicator
7. 1.5inch LTPS LCD
8. Power ON/OFF, / Picture Capture
9. Record/Play/Confirm

2. Remote control

Power on or Start recording

Stop recording & Power down

1. When DV is power off, press button on remote control to power on DV, and press again to start recording a video.
2. Press to stop recording and power off the DV.

Note: If your remote control failure cause can't control the DV or a new purchase of a remote control, please re-activate the DV, and the activation method: hold down the key and then power on your DV, and then immediately press and hold the REC button of the remote control until, you would see the screen to preview live video the activation would be successful.

Remote controller feature is optional .

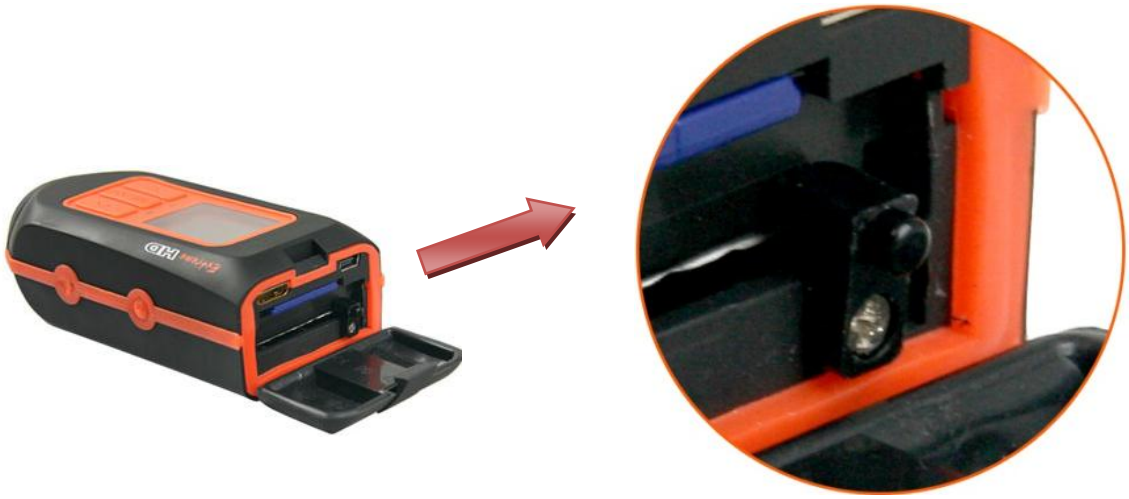
3. Install battery

Please install battery according to below diagram thoroughly.

Incorrect installation: the tag face is above.

Correct installation: the tag face is below.

Rotate locking tab as shown. Close and latch battery door fully before use.



4. Install SD/SDHC Card

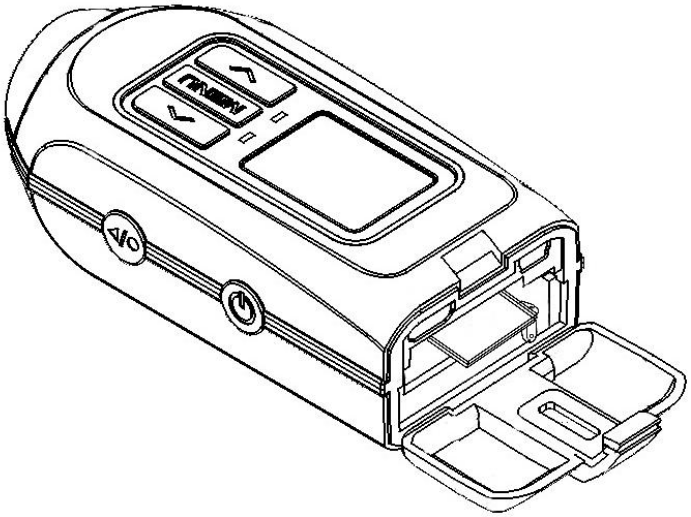
1). Installation of SD/SDHC card

Please install SD/SDHC card according to below diagram thoroughly.

Incorrect installation: the tag face is above

Correct installation：the tag face is below

2). Card Type and Capacity



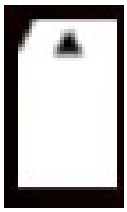
A, The DV built in 32MB ROM memory is for system files only.

B, The DV built in SD card reader supports SD and SDHC cards up to 32GB.

Note: *Some SD or SDHC cards may not work properly. SD/SDHC cards made by Sandisk are strongly recommended.*

3). Checking the Memory:

User should check if the SD/SDHC card is installed well before using the DV.

		Internal Memory
		External memory(SD/SDHC card)

Please install the SD/SDHC card correctly, the side with metal faces up, the side with character faces down.

5. Install bracket

Fixing the common gear wheel to the DV house

Mounting the gear wheel with Handlebar grip、Helmet grip or Goggle Mount

Some illustration for using

6. Adjust lens azimuth

Rotate the lens -90 ~ +90 degree by different mounting desired.

Rotate the lens 90 degree anticlockwise

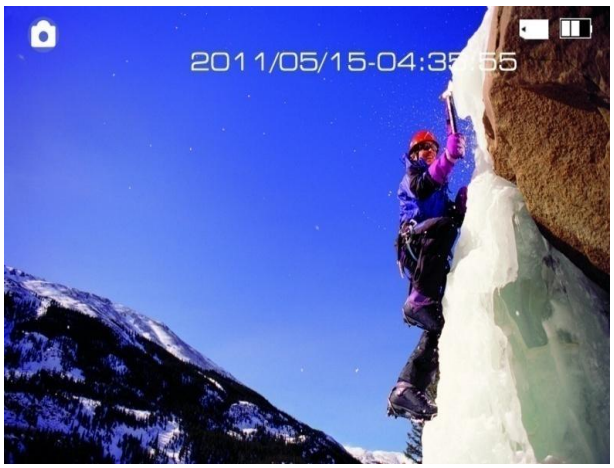
NOTICE:

The rotated range is from -90° to +90° , rotate fiercely or overly may cause structure damage.

7. Record and Capture

Power on DV，press button to recording，press button again to stop and save the video clip.

Press button to capture and save a photo.



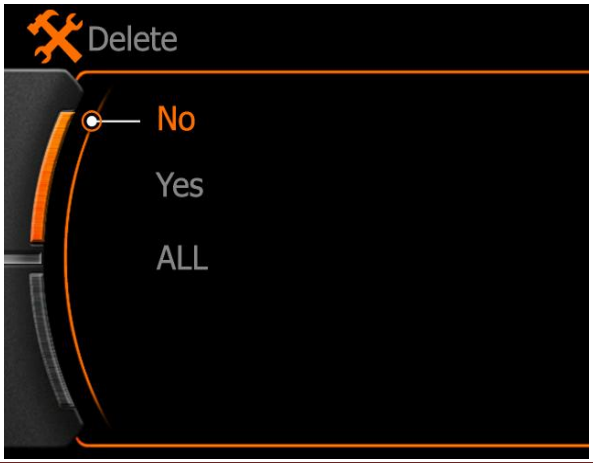
8. Playback Video clips

Long press MENU button to enter main menu, select video playback icon and then press ○/▷ button to enter, and the photo thumbnails will display on the screen as 2x3 matrix.

Press ^ v to select, and then press ○/▷ button twice to play the clip selected.

Press ○/▷ tton again to pause.

Long press ○/▷ button to enter <Delete> dialog in play or pause status.

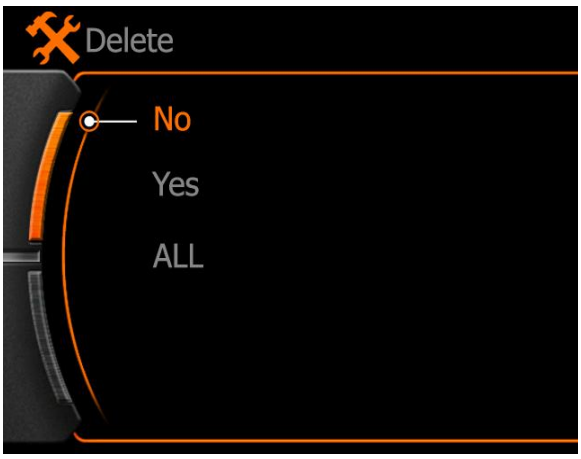


9. Playback photos

Long press MENU button to enter main menu, select photo playback icon And then press ○/▷ button to enter, and the photo thumbnails will display on the screen as 2x3 matrix.

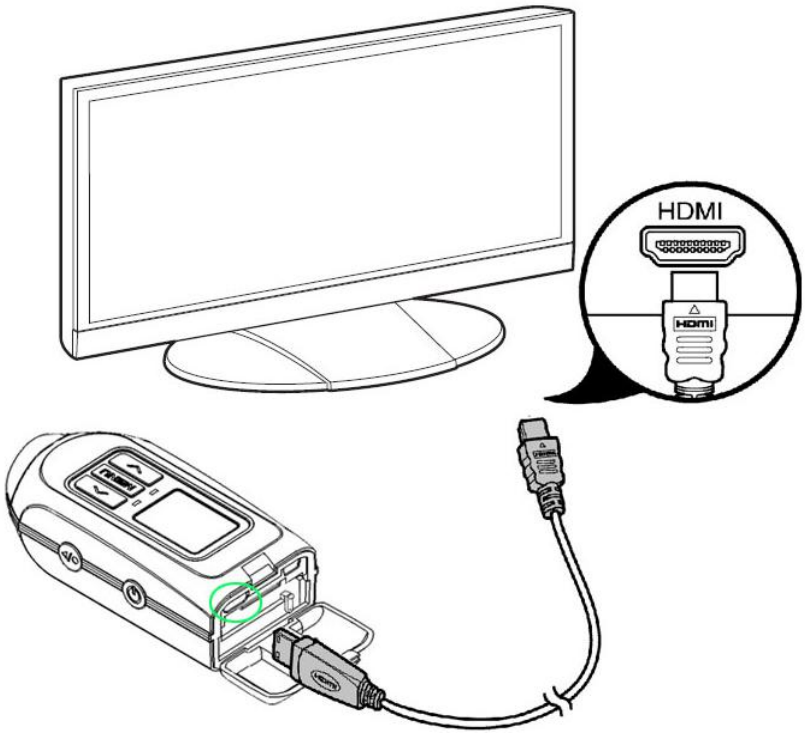
Press ^ v button to select, and then press ○/▷ button to playback the photo selected.

Long press MENU button to enter <Delete> dialog in play status.



10. HDMI TV Playback.

Connect the DV with TV by HDMI cable, power on the DV, switch the TV to HDMI input mode.



Press button to power on the DV, long press MENU to enter main menu, press to select Video playback or Photo playback, and press to enter.

And the file thumbnails will display on the screen as 2x3 matrix.

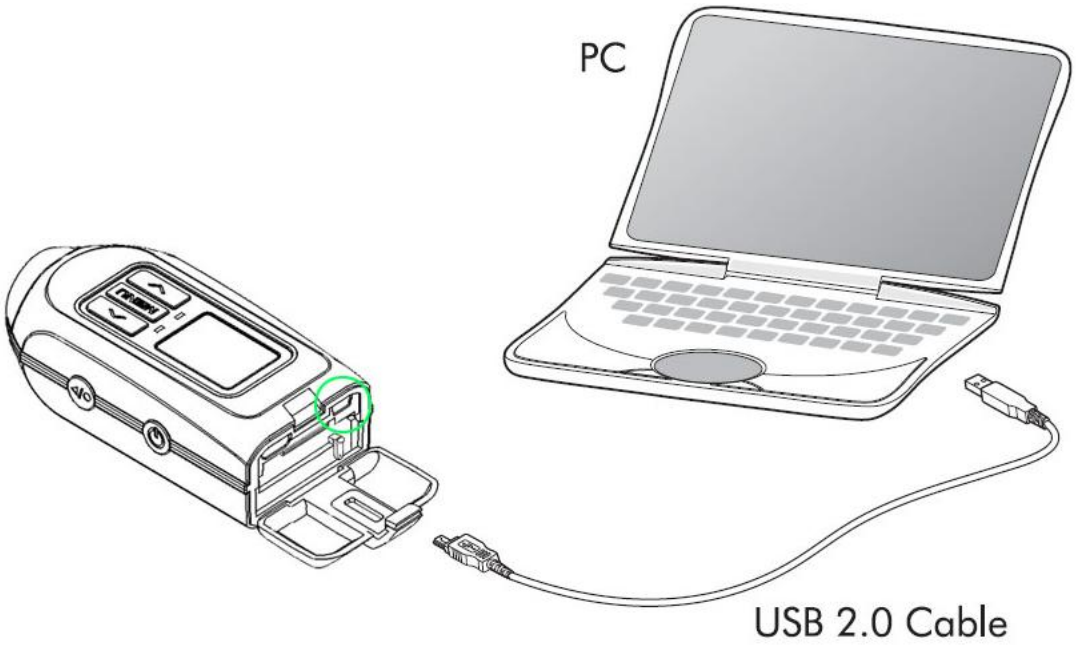
Press to select and press to playback the selection, press to toggle backward/ forward selection X2/X4/X8/X1(default)

On pause or stop status press MENU to return.

Attention：
The output resolution is 1080p（@1440x1080）or 1080i（@1920x1080）in playback condition, 480i in other status, some TV would not display correctly that because the TV does not support 1080P HD input, the DV will recognize the TV system when connected.

11. Connect with PC via USB

Connect HD119 with PC via the provided USB cable for downloading or uploading files and updating firmware



① Connect the DV with Computer by the USB cable

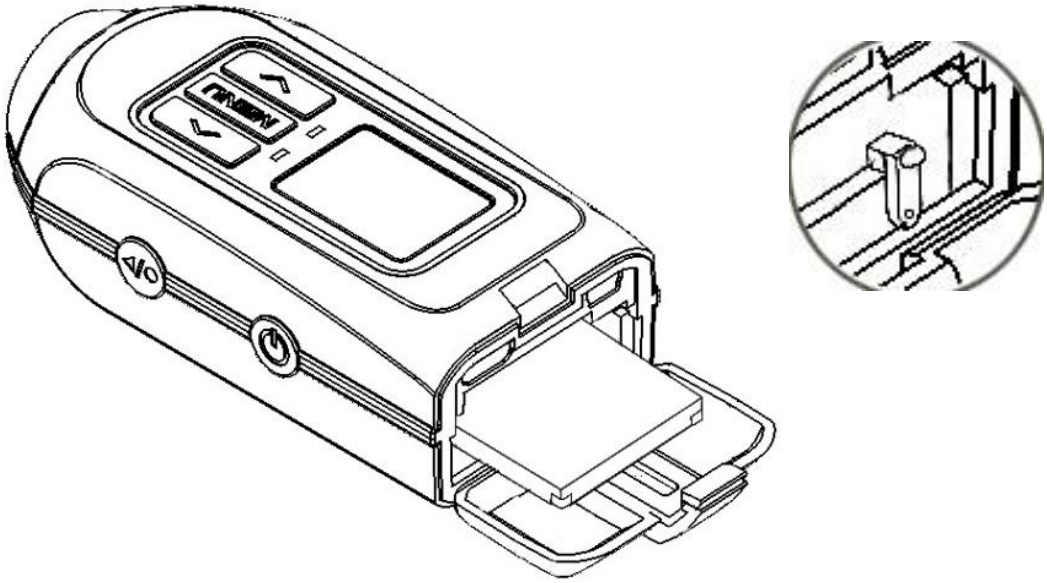
② Power on the DV

③ The screen of the DV will display “USB connected” .

Attention：User can not do any operation on the DV after connected with the computer, only operation in computer available.

Power Charger

1. Install of Battery

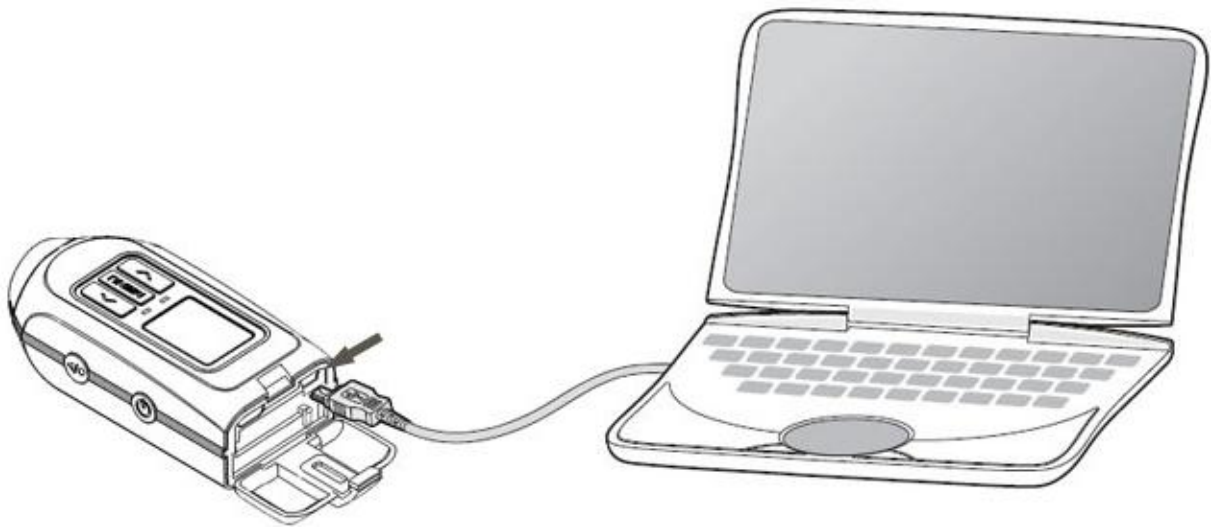


To install the battery, open the battery door by sliding the latch up (Latch is tight. You may need to use a coin). Insert battery and rotate locking tab as shown. Close and latch battery door fully before use.

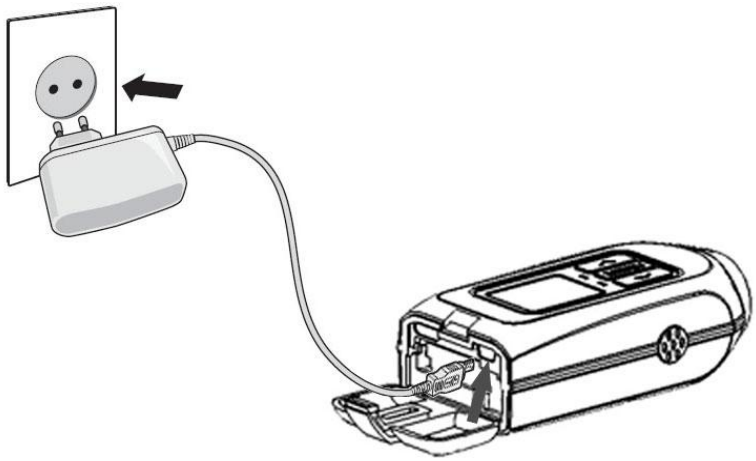
2. Charging the battery

A. Charging by connecting to PC

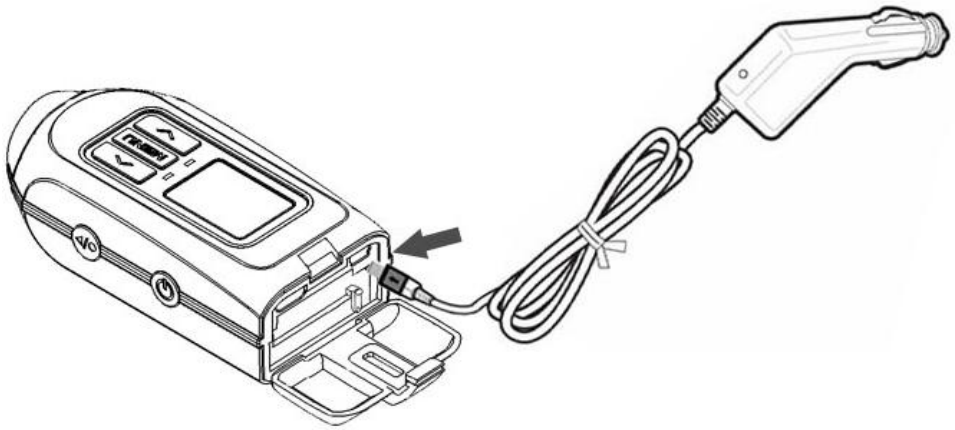
User can charge HD119 by connecting the USB cable to a computer or by using the AC Adaptor.



B. Charging With AC/DC Adaptor



C. Charging With Cigar-lighter



NOTE:

The battery is charging so long as connect with computer, please power off the DV to save the charging time.

The maker strongly recommends using a supplied AC/DC adaptor, but if it is necessary that another AC/DC adaptor is purchased separately at a shop, please check its electric specification is in accordance with HD119's specification.

3. Battery Charging Time & Operating Time

Charging Time	Continuous play time	Recording time
Approx. 5hrs in Power On	Approx： 4 hours	Approx ：2 hours and 30 minutes (1080P)
Approx. 3hrs 30mins in Power Off		

4. Battery Remaining Status

	Full		**Some Power Consumed**
	Power almost drained		**No Power**

To make sure the battery and power charger work as long as possible.

- *Do not leave unit plugged in for extended periods. Excessive power charging will reduce the battery working life and possibly damage the unit;*
- *The battery will gradually loose charge when not in use. Always charge it prior to use.*
- *Please disconnect power when unit is not in use.*

For the first time usage, charge the battery at least 12 hours. Make sure power off when charging battery

Main menu icon introduce

1. LOGO

2. Instruction

3. Main Menu:

Video playback ICON

Photo playback ICON

When move the cursor to the video folder icon, If here has video clips in the folder, On the top left corner of the icon will display the quantity of these files.

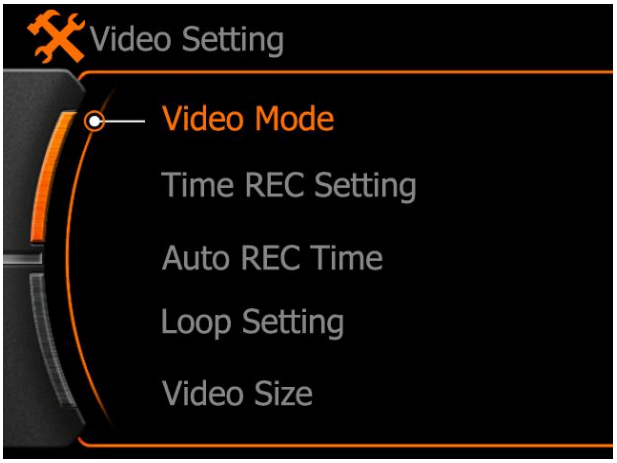
As show:

Record Setting ICON

System Setting ICON

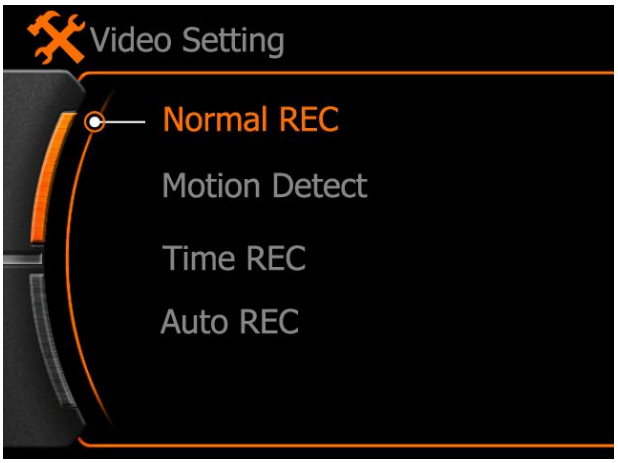
Video Setting

Long press MENU to enter main menu, select <video setting> and press ○/▷ to enter.



1. Video Mode

Press ^ v to select sub-menu, and press ○/▷ to confirm and return.



Normal REC: Manual mode, press ○/▷ to capture a clip video and again to stop and save.

Motion Detect: The DV automatically take the motion videos as a monitor

Time REC: User can take most 5 clip videos according to the setting time.

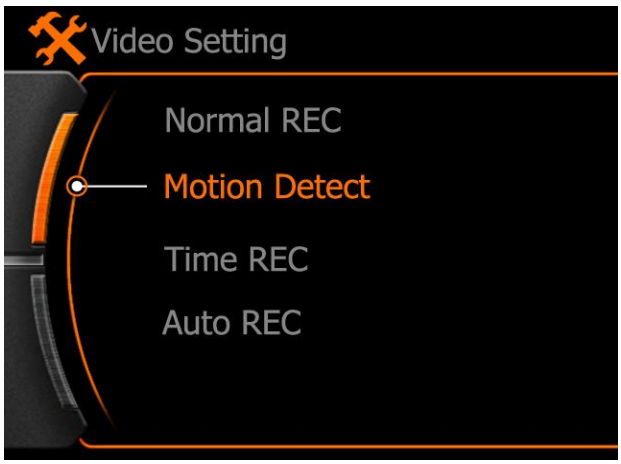
Auto REC: The DV will power on and take videos as a black box after the setting delay time if insert a Cigar-lighter before power on, and automatically power off after disconnect with power supplier including a case of parking.

2. Motion Detect

In main menu setting, press [^] [v] to select< Motion Detect>, then press [OK] to enter, and then press [MENU] to return.

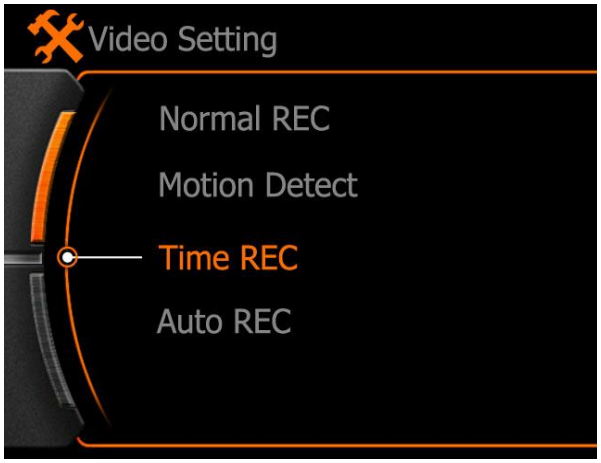
After 10 seconds, the DV will start detecting motion, and will take a clip if the preview living video is changing. The first default clip is 60 seconds, another 30 seconds will be increased with another trigger after the video starting 30seconds and so on.

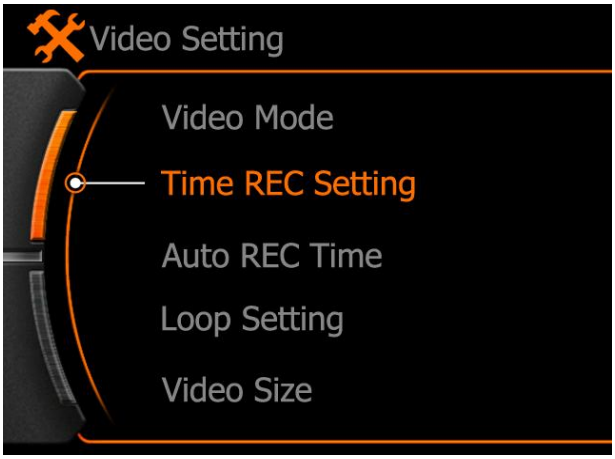
NOTE: The delay time is also 10 seconds after power on.



3. Time REC setting

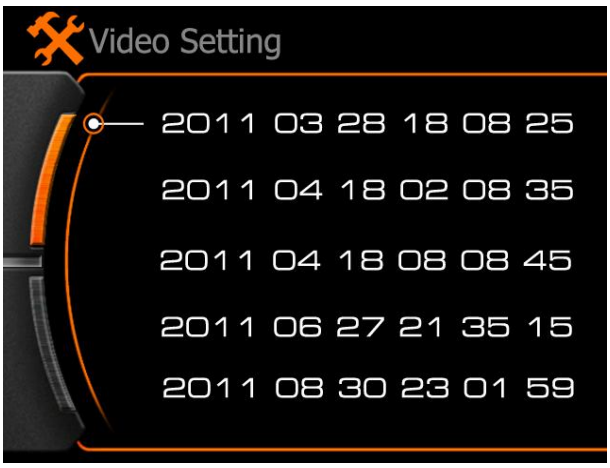
After setting Time REC mode, press [^] [v] to select<Time REC Setting>, then press [OK] to enter.

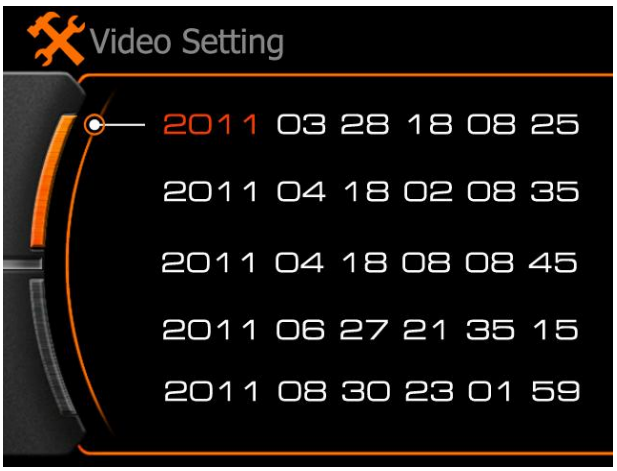




Video Setting

Press to toggle selection the digits, press to change the digits for each of the data or time options you desire to update, and then press to add a new case.



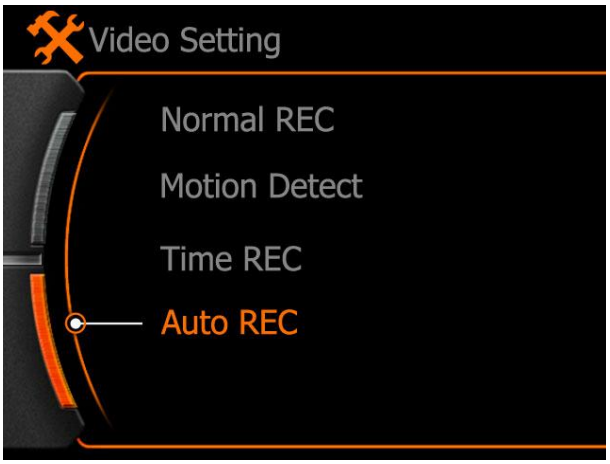


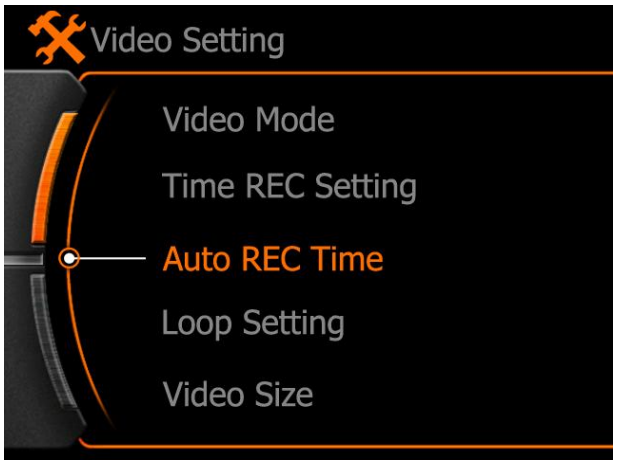
2011:Year, 03:Month, 28:Date, 18:Hour, 08:Minutes, 25:Reconding time

2011, red color means this digit is current modification status.

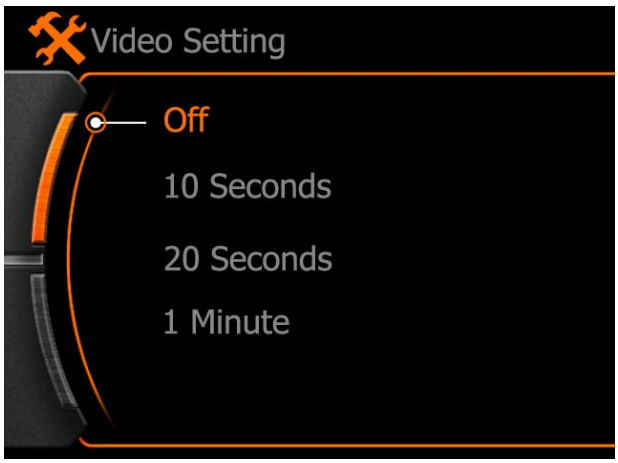
4. Auto REC setting

After setting Auto REC mode, press to select <Auto REC Time> and press to enter.





Press to select sub-menu，and then press to confirm.



Off：Disable

10 Seconds：to start capturing after auto startup 10 seconds.

20 Seconds：to start capturing after auto startup 20 seconds.

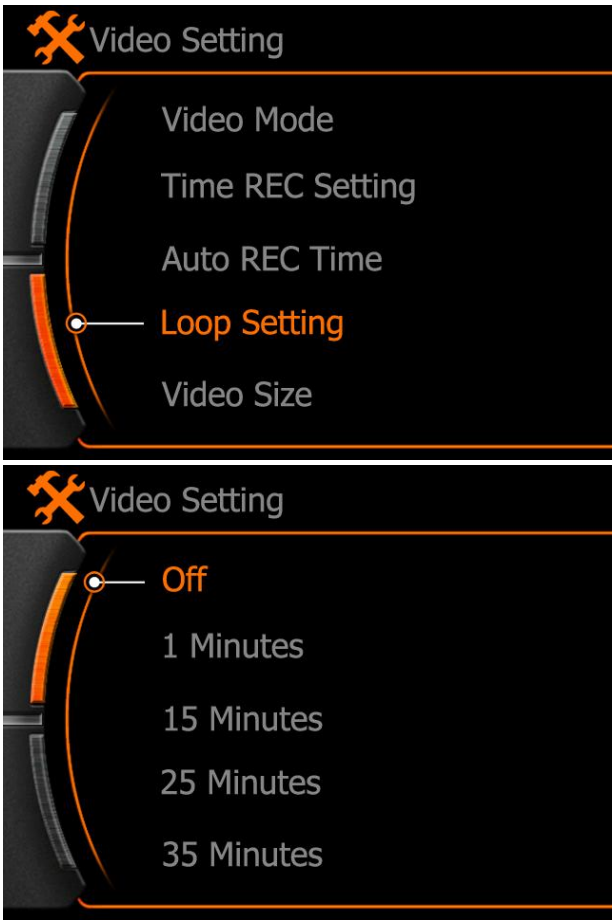
1 Seconds： to start capturing after auto startup 60 seconds.

Note: This function will be active none but inserting a Cigar-lighter before power on.

5. Loop Setting

The DV automatically erase the clips from the first to empty space for new clips, So that user can always take the continuous video uninterrupted.

After enter main menu setting, press to select <Loop Setting> and press to enter.



Off：None separateness, DV will take one whole clip video if no other operation until the memory card is full.

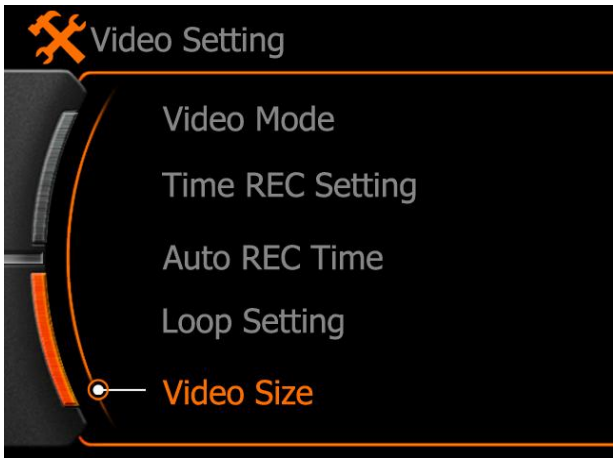
** Minutes：The DV will take one clip video per **minutes if no other operation until the memory card is full

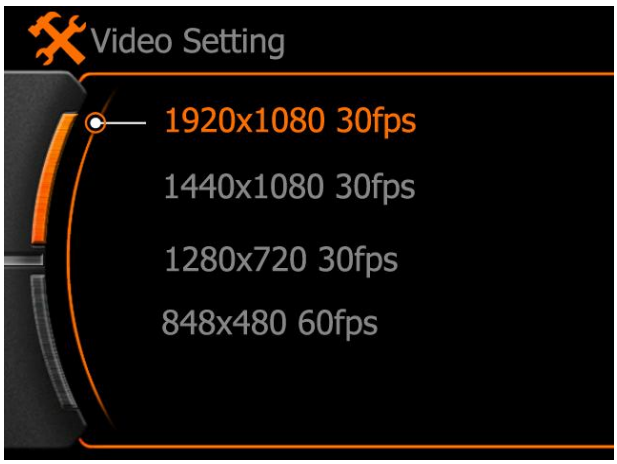
NOTE:

1. **More important videos can be saved and protected though the crash down caused by wrong operation or low power in loop mode.**
2. **Loop setting will be active in Normal REC and Auto REC mode only.**

6. Video Size setting

Press to select <Video Size>, and Press to enter.



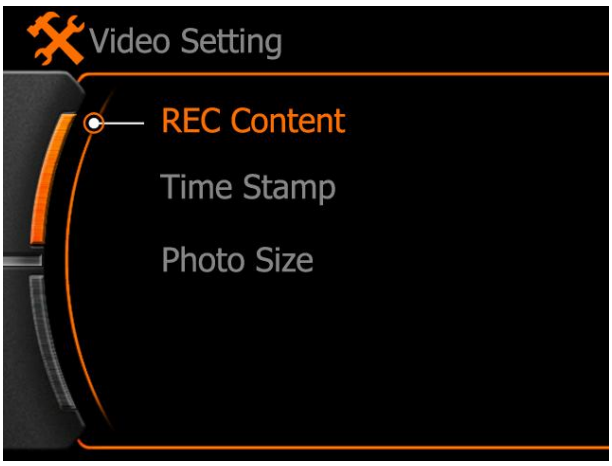


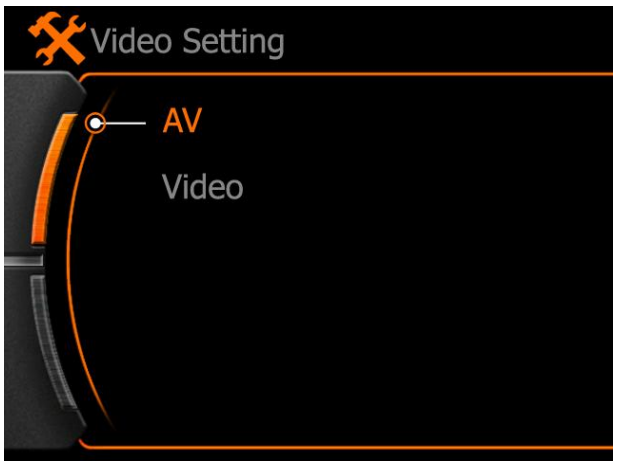
Press to select and then press to confirm your selection.

Sub-menu	Solution	Frame Per Second	Length-breadth ratio
1920x1080	Full HD 1080p	30fps	16 : 9
1440x1080	Full HD1080p	30fps	4 : 3
1280x720	HD720p	30fps	16 : 9
848x480	QVGA	60fps	4 : 3

7. REC Content setting

Press ^ v to select <REC Content>, and Press ○// to enter.





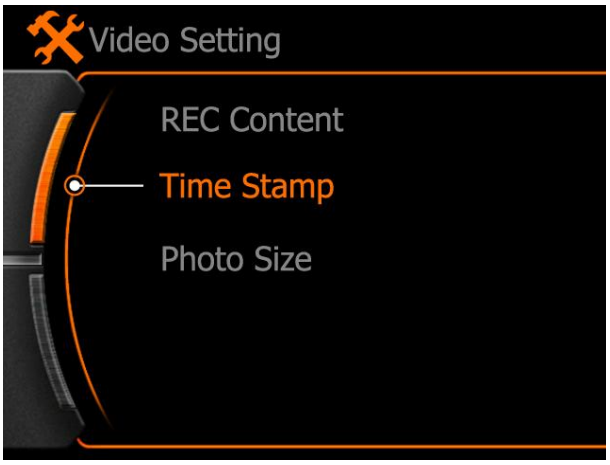
Press ^ v to select and then press ○// to confirm your selection.

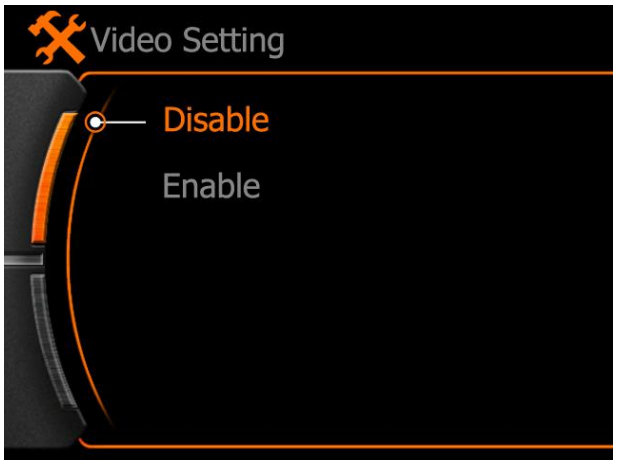
AV: The content of videos will be taken include Audio &Video

Video: The content of videos will be taken include Video only

8.Time Stamp setting

Press ^ v to select <Time Stamp>, and press ○// to enter.





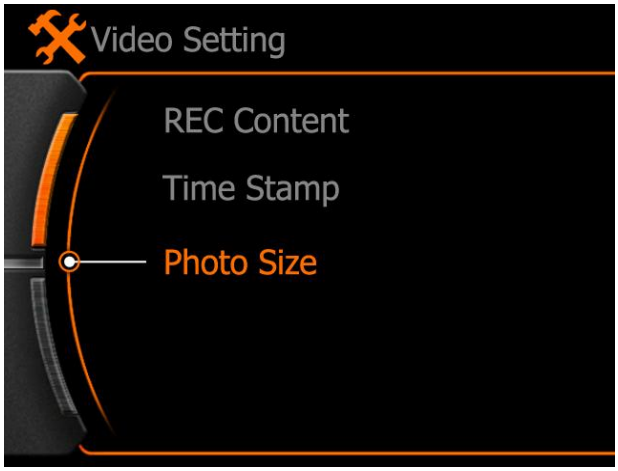
Press ^ v to select and then press ○// to confirm your selection.

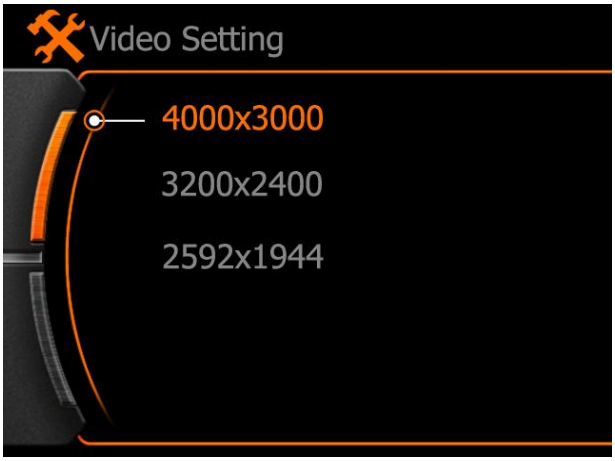
Disable：Do not add the recording date & time to videos and photos.

Enable；Add the recording date & time to videos and photos.

8. Photo Size setting

Press   to select <Photo Size>, and press to enter.

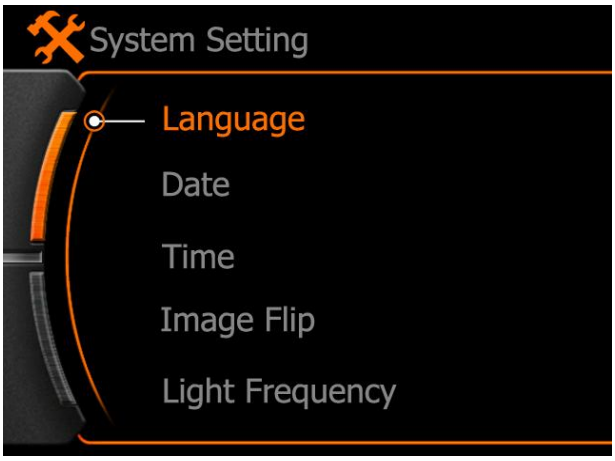




Press   to select and then press to confirm your selection.

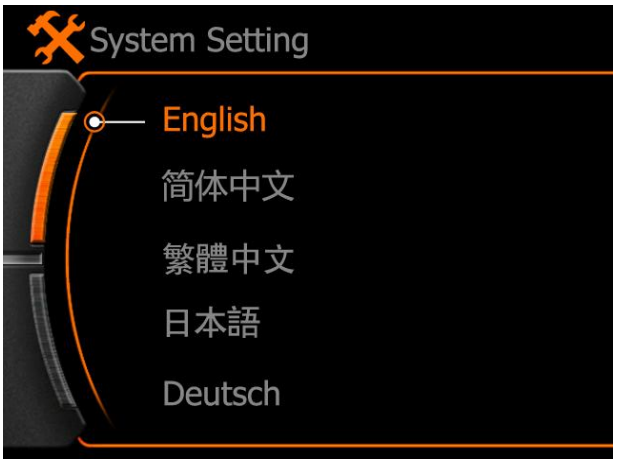
System Setting

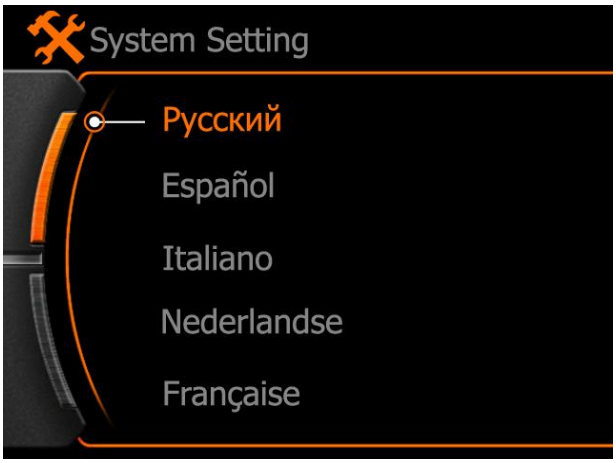
Lone press MENU to enter main menu and press ^ v to select <System Setting>, and then press ○/▷ to enter.



1. Language setting

Press ^ v to select sub-menu <Language> and press ○/▷ to enter.

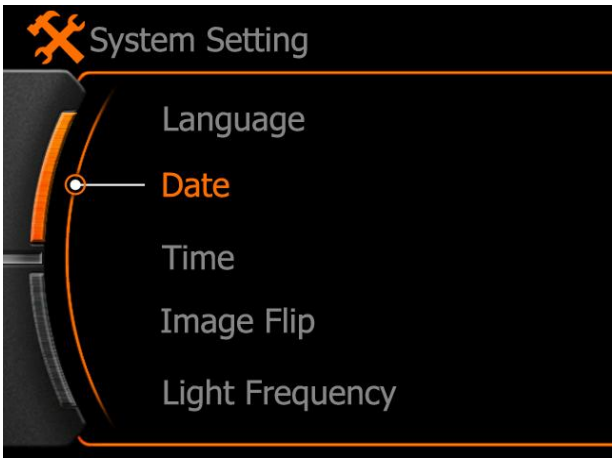


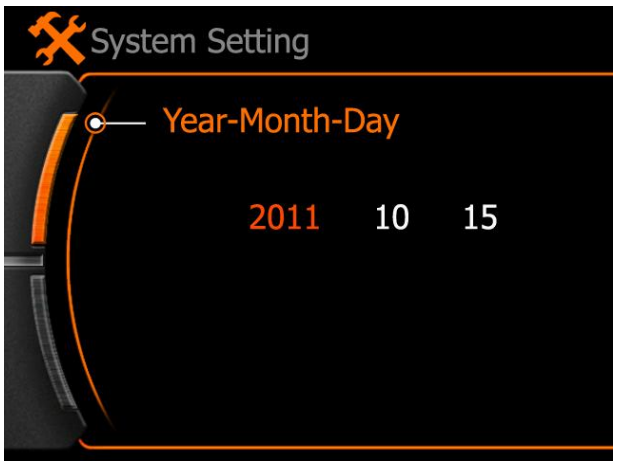


Press ^ v to select and press ○/▷ to confirm your selection.

2. Date setting

Press [^] [v] to select sub-menu <Date> and press [OK] to enter.





Press [OK] to toggle selection the digits, press [^] [v] to change the digits

for each of the year、month or data options you desire to update, and then press [MENU] to confirm and return.

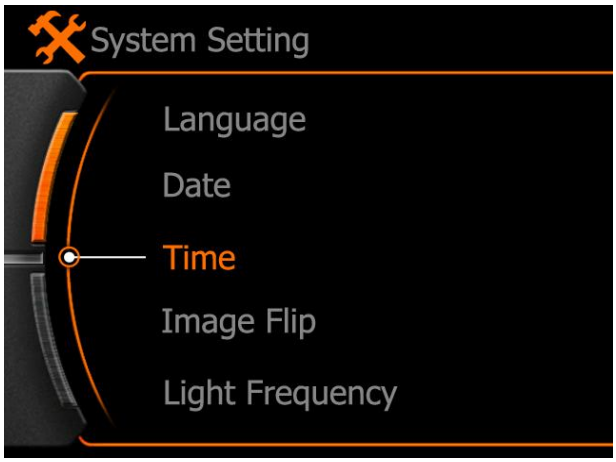
2011,colored: Year， Current digit to be change.

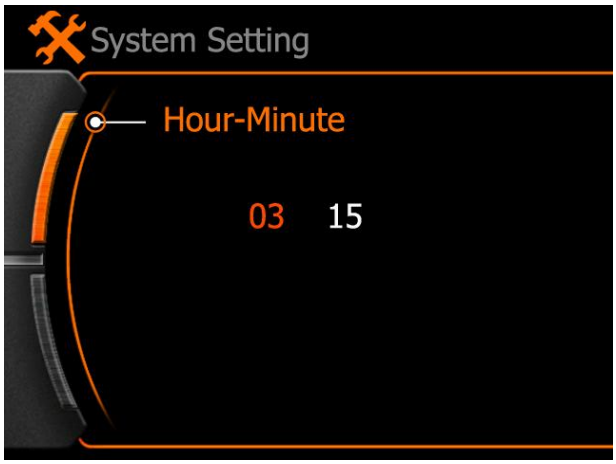
10： Month

15：Date

3. Time setting

Press [^] [v] to select sub-menu <Time> and press [OK] to enter.





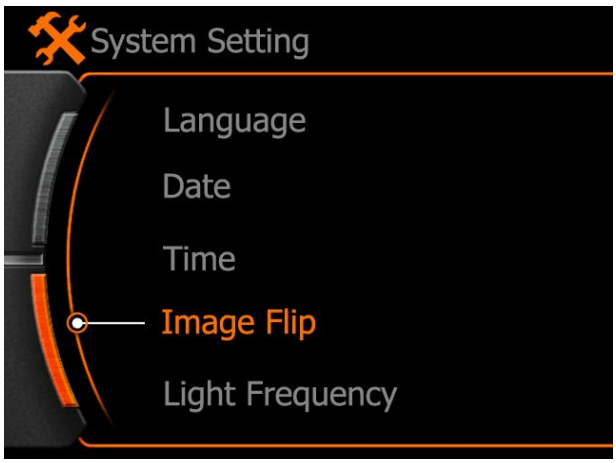
Press [OK] to toggle selection the digits, press [^] [v] to change the digits for each of the year、month or data options you desire to update, and then press [MENU] to confirm and return.

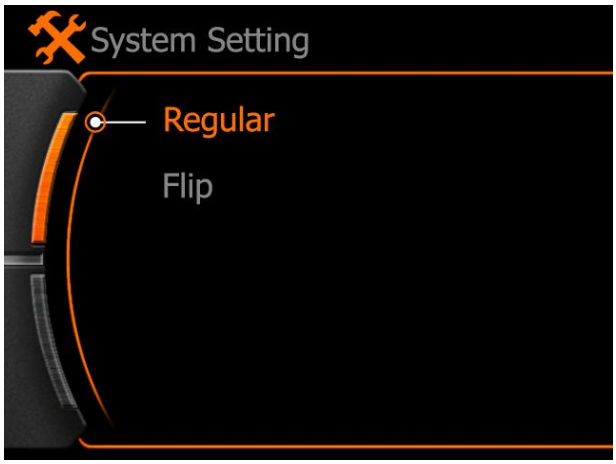
03， colored： Hour，Current digit to be change.

15： Minute

4. Image Flip setting

Press to select sub-menu <Image Flip> and press to enter.





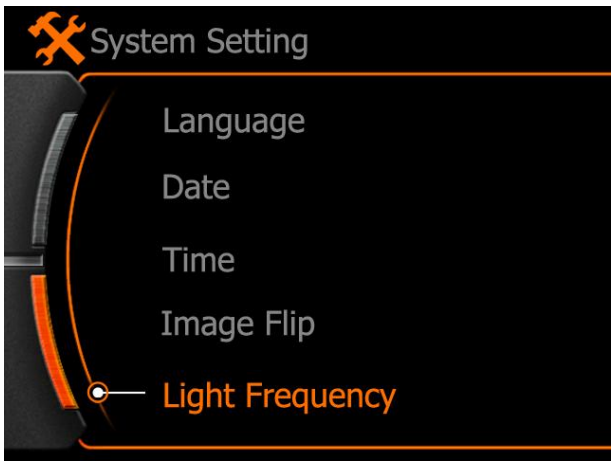
Press to select and press to confirm your selection.

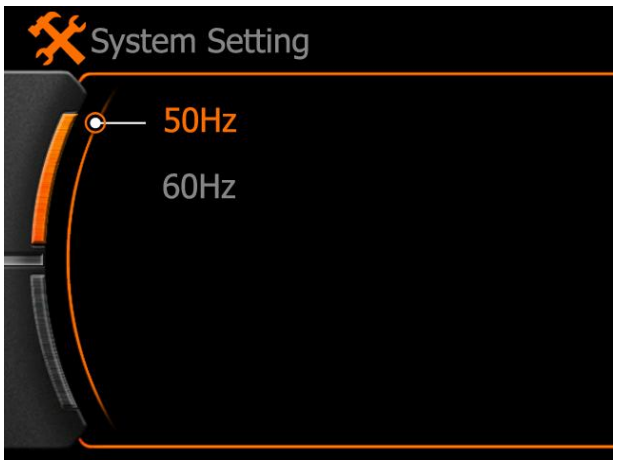
Regular: Normal status

Flip: For special azimuth fixing.

5. Light Frequency setting

Press to select sub-menu <Light Frequency> and press to enter.





Press to select and press to confirm your selection.

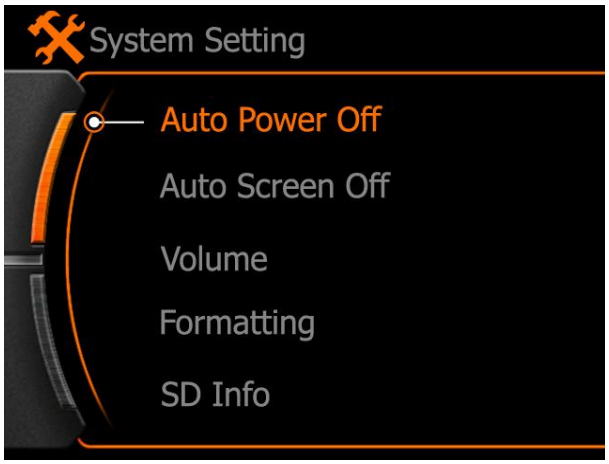
50Hz: For rating 220VAC/50Hz area

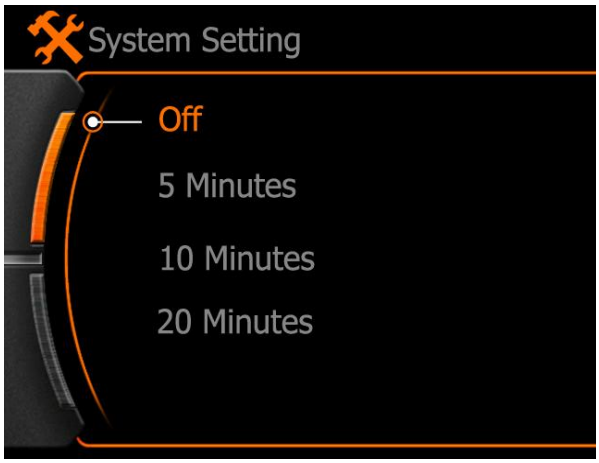
60Hz: For rating 110VAC/60Hz area

The anti-flicker frequency can be changed when taking photos or videos in fluorescent light to correspond with the frequency of the mains supply. 50Hz is used in USA. 60Hz is used in Europe.

6. Auto Power Off setting

Press to select sub-menu <Auto Power Off > and press to enter.





Press to select and press to confirm your selection.

Off：Disable

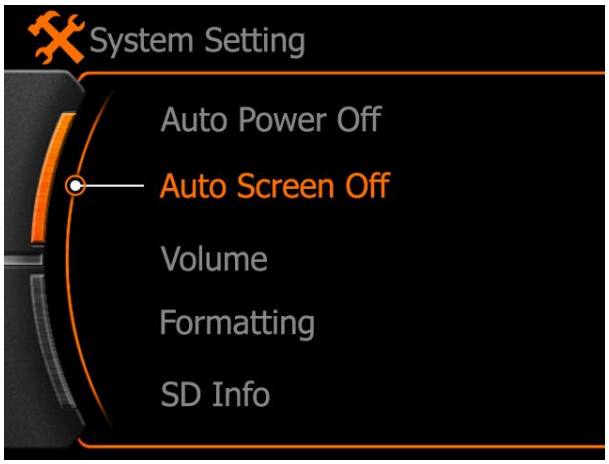
5Minutes：Power off automatically after 5 minutes if without operation;

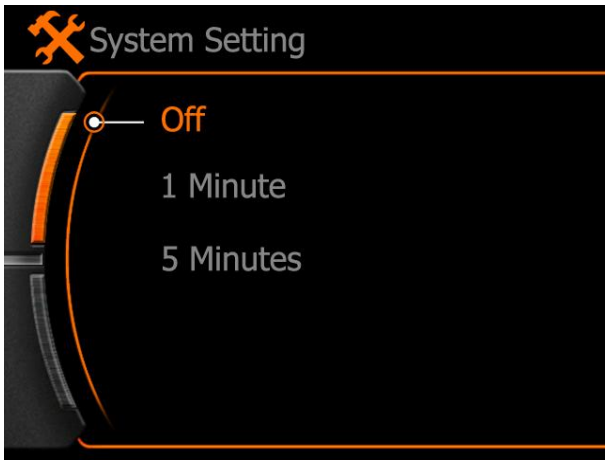
10Minutes：Power off automatically after 10 minutes if without operation;

20Minutes： Power off automatically after 20 minutes if without operation;

7. Auto Screen Off setting

Press to select sub-menu <Auto Screen Off > and press to enter.





Press to select and press to confirm your selection.

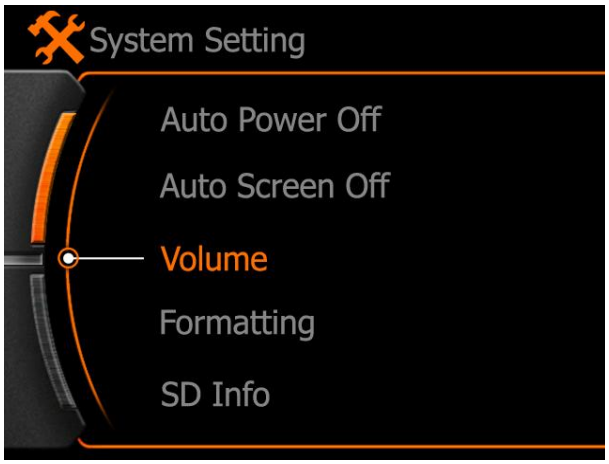
Off：Disable

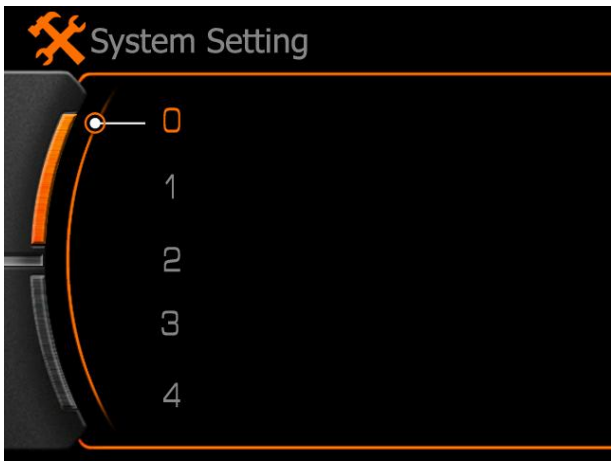
1Minutes：LCD off automatically after 1 minute if without operation;

5Minutes：LCD off automatically after 5 minutes if without operation;

8. Volume setting

Press to select sub-menu < Volume setting**>** and press to enter.





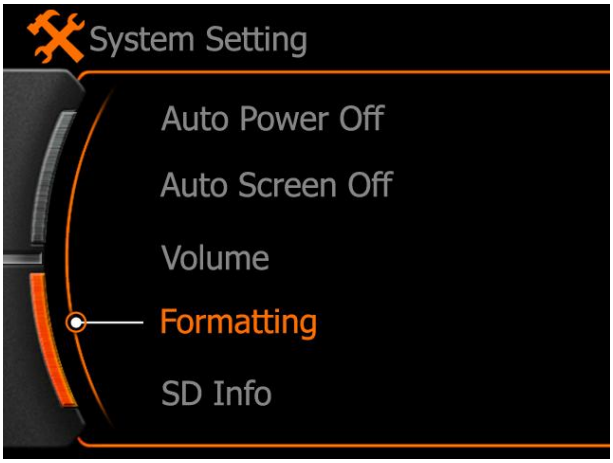
Press to select and press to confirm your selection.

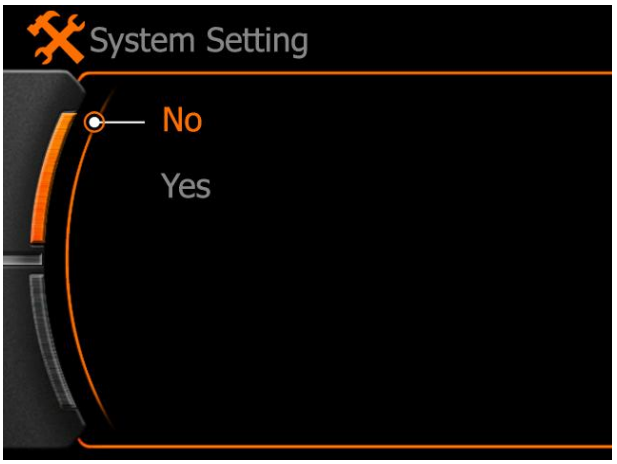
0：Disable

1~6：Volume level from lower to highest;

9. Formatting setting

Press to select sub-menu < Formatting setting **>** and press to enter.





Press to select and press to confirm your selection.

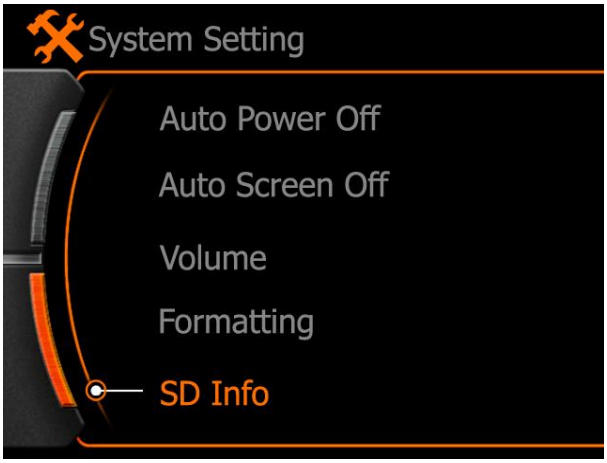
No：No operation and return

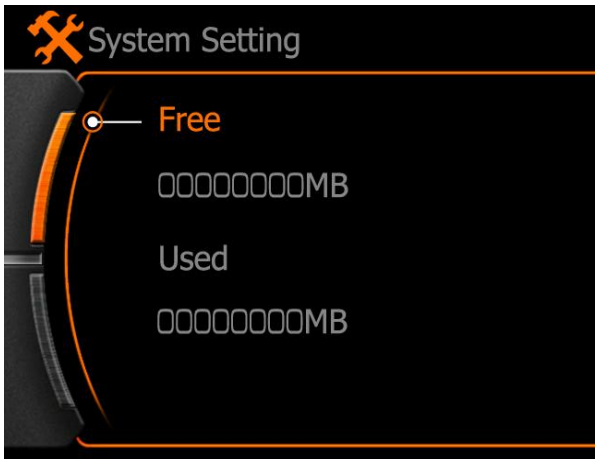
Yes：Format the memory card

The data won't restore once you format the memory, you need to backup the data before doing the format operation.

10. Check SD Information

Press to select sub-menu < SD Info **>** and press to enter.



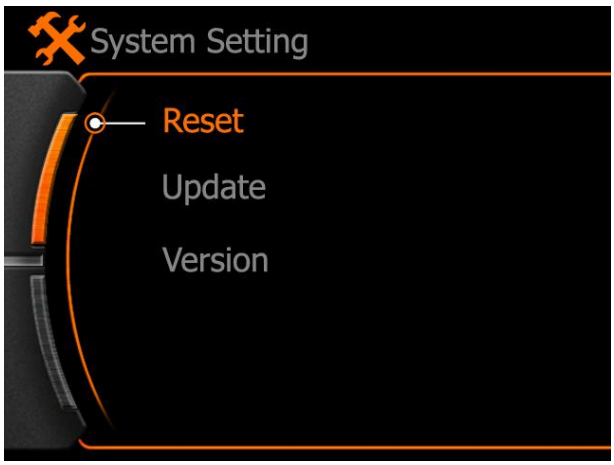


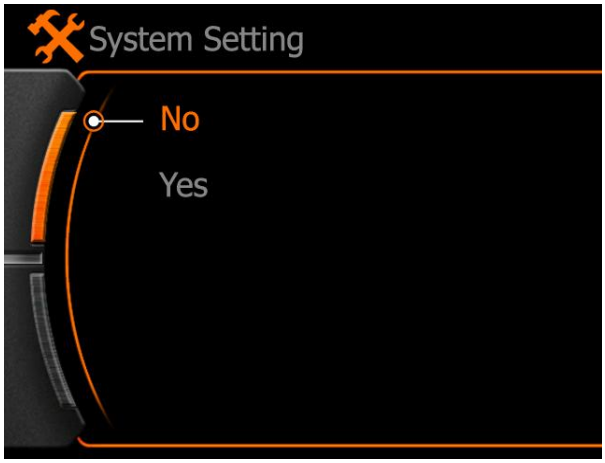
Free: The free size of the memory card

Used: The used size of the memory card

11. Reset

Press to select sub-menu < Reset **>** and press to enter.





Press to select and press to confirm your selection.

No：No operation and return

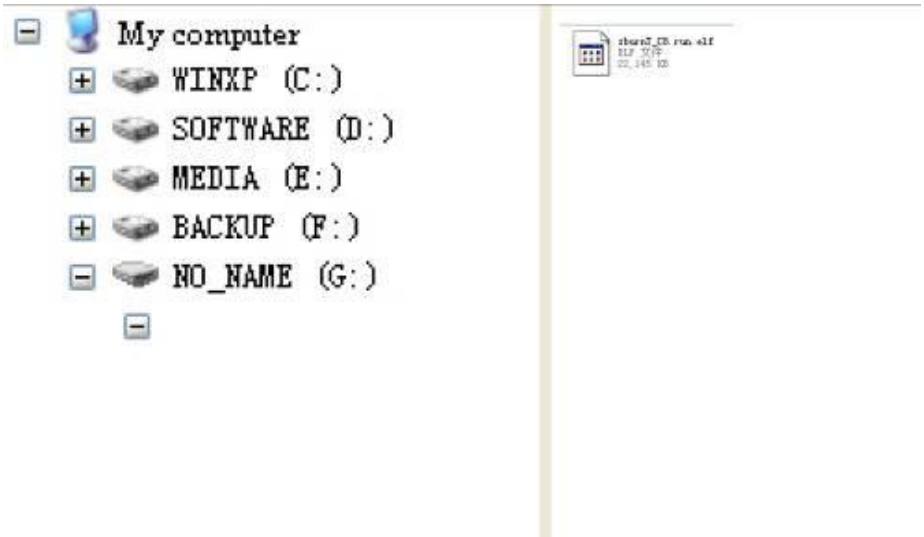
Yes：Reset the setting after updating

12. Update

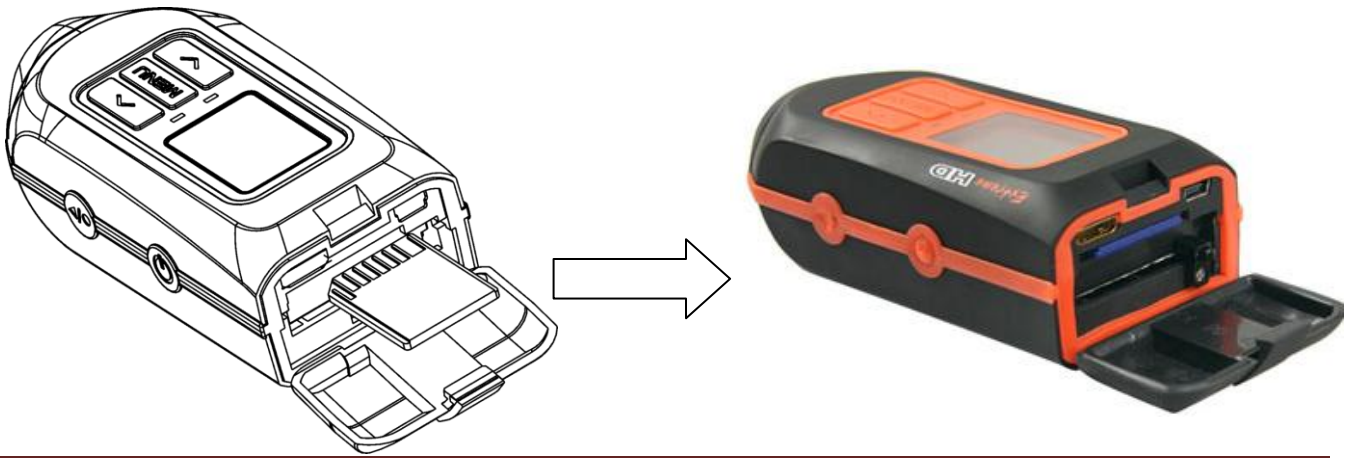
From official or agent website Download and release the firmware first if the received file is compression, as picture below.

Released:

Copy the released firmware under the root director of a memory card,

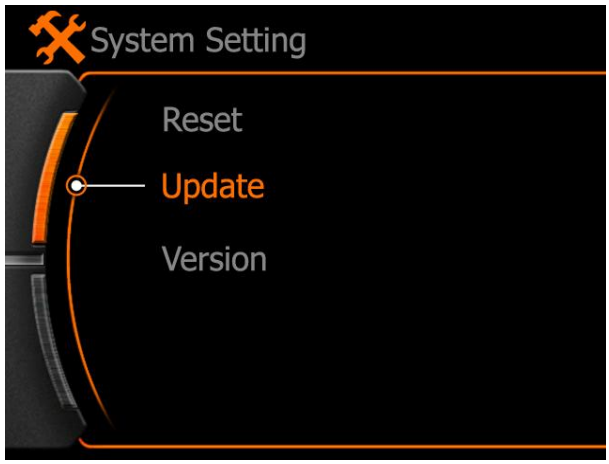


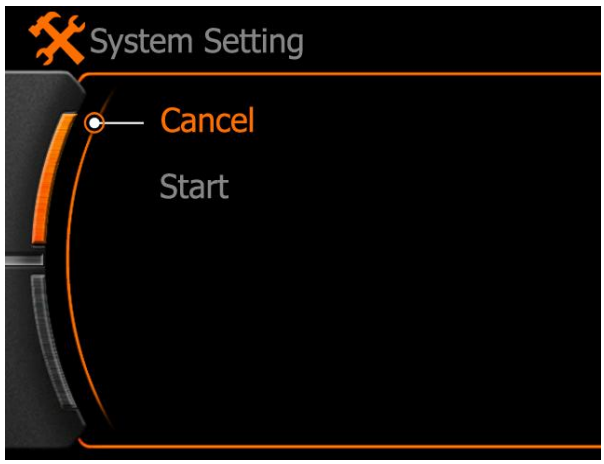
Then insert the card into the slot of the DV as below:



System Setting

Press to select sub-menu<Update> and press to enter, Press to select <Start > and then press to start updating ,



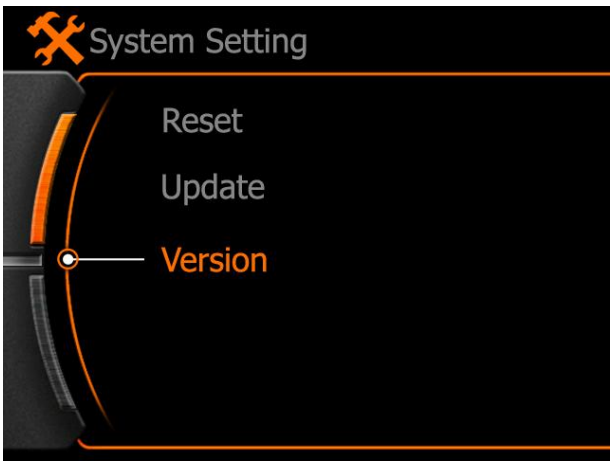


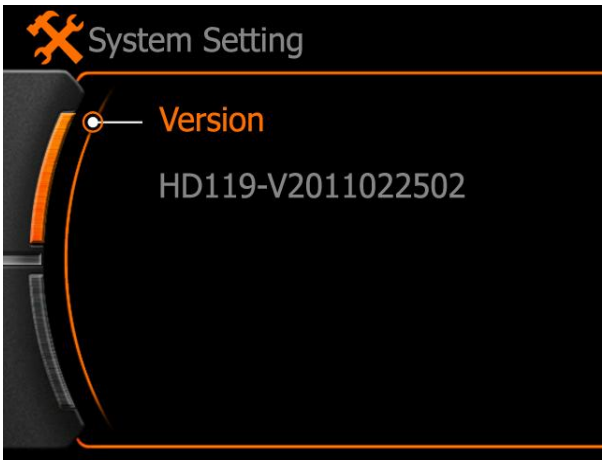
The LCD screen will display “Firmware Update...”and LCD screen off when finish updating.

Cancel: No operation and return

13. Check Version

Press to select sub-menu<Version> and press to enter,





The screen will display the version number.

HD119: DV mode

V2011022502: Firmware version

General Specification

	SPEC		Detail & Support	Remark
H/W	Internal Storage Device		32MB	
	SD Card		1-32GB	Support SDHC 32GB
	LCD	Size	1.5inch	
		Resolution	480x240,TFT	LTPS
	Sensor	Optical Format	1/2.5inch(4:3)	12bits CMOS
		Active Pixels	2592H x 1944V	
	Video	Output Ch	Mini-HDMI	TV/LCD Selectable
	Audio	MIC	Built-in	
		Output Ch	1Ch	
		Speaker	Mono	
	PC Interface	Mini-USB	USB 2.0	High Speed
	Power Video	Battery	3.7[V], 1300[mAH]	Li-ion Polymer
		AC/DC Adaptor	DC 5V, ≥500mA	
Size	Dimensions		116x53x34[mm]	
	Weight		133[g]	Battery installed
Other functions	Motion Record		YES	
	Timer Record		YES	
	Auto Record		YES	
	LOOP Record		YES	
	Video/Audio Select		YES	
	Memory Change in Memory Full		YES	
	Time Stamp		YES	
	Image Flip		YES	
	Record Quality Select		YES	
	Support LCD Off to Recording		YES	
	Recording backup to low battery		YES	

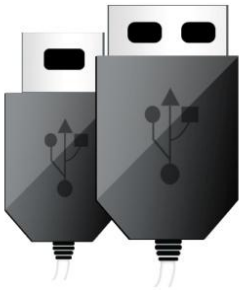
General Specification

	SPEC		Detail & Support	Remark
Recording	Auto Power Off		YES	5min,10min,20min
	Video Recording	Resolution	FHD:1920x1080 30fps	
			FHD:1440x1080 30fps	
			HD: 1280x720 30fps	
			848x480 60fps	
	Photo Capturing	Resolution	4000x3000 12M 3200 x 2400 8M 2592 x 1944 5M	
	Audio Rec.	Video & Audio Rec	YES	
Playback	Slide Show		NO	
	Image Thumbnail View		YES	2X3 matrix
	Video	Resolution	FHD:1920x1080 FHD:1440x1080 HD: 1280x720	848x480
		Frame Rate	Max. 30 fps	Max. 60 fps
		File Format	FHD MOV H.264/MPEG4	
		Playback speed	X1, X2,X 4,X 8	
Storage Temperature			-10~50Temperature, Preferably in cool&dry&ventilated area	
Working Temperature			0 ~ 40° C	

Accessories introduce

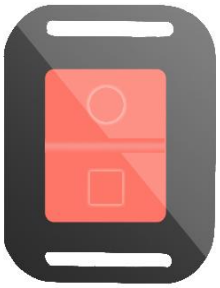
Fittings：

Manual CD



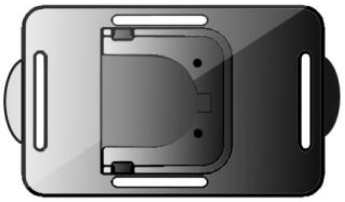
USB Cable

Universal Clip

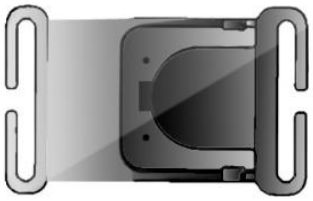


Remote Control

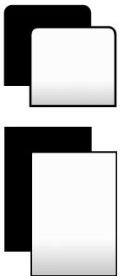
Handlebar Grip



Helmet Grip



Goggle Mount



Velcro Set

Battery

Cigarette Charger

Head Strap

We will not inform you if there is any modification for user maual in future